

Title (en)

METHOD AND DEVICE FOR PRODUCING AMMONIA OR HYDROGEN AND USE OF THE DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON AMMONIAK ODER WASSERSTOFF UND VERWENDUNG DER VORRICHTUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PRODUCTION D'AMMONIAQUE OU D'HYDROGÈNE ET UTILISATION DU DISPOSITIF

Publication

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Application

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Abstract (en)

[origin: WO2020016333A1] The invention relates to a device for producing ammonia or hydrogen, comprising a) a gas flow supply having a connecting line to a steam reformer having a waste-heat line, b) a heat exchanger downstream of the gas flow supply, c) a gas flow preheater downstream of the heat exchanger, d) a recirculation line downstream of the gas flow preheater, which recirculation line leads to the gas flow supply or, upstream of the heat exchanger, to the connecting line, and e) the steam reformer with the waste-heat line, the waste-heat line being thermally in contact with the gas flow preheater and the passage of the gas flow heated in the gas flow preheater through the recirculation line being controllable. The invention further relates to a method for producing ammonia or hydrogen using the device according to the invention, and to the use of said device.

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